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L14: Entry 66 of 75

File: DWPI

Jul 27, 1996

DERWENT-ACC-NO: 1997-153032

DERWENT-WEEK: 199714

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TITLE: Cleaning of water of storage containers of spent heat generating assemblies
- includes forming of pseudo-liquefied layer of ion-exchange resin by action of
direct magnetic field and moving of layer upwards through container

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PRIORITY-DATA: 1991SU-4940851 (February 20, 1991)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> RU 2064693 C1	July 27, 1996		004	G21C019/06

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
RU 2064693C1	February 20, 1991	1991SU-4940851	

INT-CL (IPC): [G21 C 19/06](#)

ABSTRACTED-PUB-NO: RU 2064693C

BASIC-ABSTRACT:

A mixt. of an ion-exchange resin (5) with grains having ferromagnetic properties is placed in the internal space of a container (1) and a boiling layer is formed with a height equal to the height of a section of magnetic coils (2). The coils are moved upwards along the longitudinal axis of the container from its lower end at a speed depending on the vol. capacity of the ion-exchange resin. During movement of the magnetic coils, the direct magnetic field acts on the grains of the resin with ferromagnetic properties, which acquire rotary and oscillating movements. A pseudo-liquefied layer is formed and moved upwards and slag corrosion prods. having magnetic properties are pulled to the ferromagnetic grains and are moved to the upper level of the water in the container. The moving grains also have an abrasive effect on the walls of the container and accumulate removed particles. The ion-exchange resin with collected magnetic corrosion prods. is then sepd. from the water flow in a magnetic trap.

Prolonged storage of fissionable materials in water-cooled tanks

Intensification of cleaning and of abrasive effect on container

ABSTRACTED-PUB-NO: RU 2064693C
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/2

DERWENT-CLASS: K07
CPI-CODES: K07-X;

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